

FEATURES

- Ex protection: suitable for zone 1 and zone 2
- Incl. leather case
- Integrated pressure sensor
- Sturdy metal connection pin
- Tare function
- Zero point and slope correction

RS PRO Manometer

RS Stock No.: 205-1444



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Manometer

Product Description

This handheld instrument is a valuable tool for demanding pressure measurements (of air and no aggressive gases) in explosive environments.

Manometer with integrated Sensor from -1000 ... 2000 mbar for over/under pressure and pressure difference in

- Industry and craft, HVAC: heating, ventilation, air-conditioning
- Gas pressure monitoring in piping systems
- Leakage test / pressure test
- Measurements of gas and oil firings

General Specifications

| | |
|-------------------------------------|--|
| Model Number | RS PRO - ex |
| Pressure Port Type | Differential or relative |
| Number of Pressure Ports | 2 |
| Pressure Range | -1000 ... 2000 mbar |
| Selectable Units | mbar / bar / kPa / MPa / PSI / mmHg / m H ₂ O |
| Resolution | 1 mbar |
| Maximum Overpressure | 4 bar |
| Response Time | < 250 ms |
| Over Range Indicator | Yes |
| Under Range Indicator | Yes |
| Zero Pressure Correction | Yes |
| Alarm | No |
| Accuracy | +/- 0.2 % FS - hysteresis and linearity +/- 0.4 % FS (@ 0..50 °C) - temperature influence |
| Display Type | LCD |
| Data Logging | No |
| Leak Testing | No |
| Low Battery Indicator | Yes |
| Minimum / Maximum Recordings | Yes |
| Intrinsically Safe | No |
| Interface | Yes (not useable in ex-zone) |
| Calibration Available | Factory calibration protocol |

Electrical Specifications

| | |
|------------------------------|---------------------------------------|
| Battery Type | 9V battery |
| Battery Life | Approx. 500 h |
| Auto Power Off time | 1 ... 120 minutes, can be deactivated |
| Low Battery Indicator | Yes |

Mechanical Specifications

| | |
|----------------------|--|
| Housing Material | Break-proof ABS housing |
| Pressure connection | 2 universal pressure port |
| Connection Size | connection ports for tubes 6 x 1 mm (4 mm inner diameter) and 8 x 1 mm (6 mm inner diameter) |
| Dimensions | |
| Length | 142 mm + metal ports 16 mm at top of device (159.0 mm with leather case) |
| Width | 71 mm (74.0 mm with leather case) |
| Height | 26 mm (35.0 mm with leather case) |
| Weight | Approx. 205 g (incl. case) |
| Vibration Resistance | Not specified |
| Shock Resistance | Not specified |

Operation Environment Specifications

| | |
|-------------------------------|-------------------------------|
| Relative Humidity | 0 ... 95 %RH (not condensing) |
| Minimum Operating Temperature | -10 °C |
| Maximum Operating Temperature | +50 °C |
| Storage Temperature Range | -20 to +70 °C |

Protection Category

| | |
|------------------|--|
| IP Protection | Front side IP 65 |
| Ex qualification |  II 2 G Ex ib IIC T4 Gb |

Additional Information

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|----------------------|----------|
| Custom Tariff Number | 90262020 |
|----------------------|----------|

Approvals

| | |
|---------------------------|--|
| Compliance/Certifications | CE, ATEX |
| Declarations | Manufacturer Conformity, EC-Type Examination Certificate |

Similar Products

| Parameters | Stock# 205-1446 | Stock# |
|------------------------------|--|--------|
| Model Name | RS PRO - ex | |
| Pressure Port Type | Differential or relative | |
| Number of Pressure Ports | 2 | |
| Pressure Range | -500.0 ... +500.0 Pa (-5.000 ... +5.000 mbar) | |
| Selectable Units | Pa / mbar / kPa / mmHg / PSI / m H ₂ O | |
| Resolution | 0.1 Pa (0.001 mbar) | |
| Maximum Overpressure | 250 hPa (mbar) | |
| Response Time | < 250 ms | |
| Over Range Indicator | Yes | |
| Under Range Indicator | Yes | |
| Zero Pressure Correction | Yes | |
| Alarm | No | |
| Best Accuracy | +/- 0.3 % FS - hysteresis and linearity +/- 0.4 % FS (@ 0..50 °C) - temperature influence | |
| Display Type | LCD | |
| Data Logging | No | |
| Leak Testing | No | |
| Low Battery Indicator | Yes | |
| Minimum / Maximum Recordings | Yes | |
| Intrinsically Safe | Yes | |
| Interface | Yes (not useable in ex-zone) | |
| Calibration Available | Factory calibration protocol | |